CHANGE NCS CONFIGURATION

1. VERIFY HEALTH AND STATUS OF MDM

PCS Node 1: C&DH: Primary(Secondary) MDM

NODE 1: C&DH: MDM: Primary(Secondary)

√Frame Count - <incrementing>
MDM is operational.
√MDM BIT Status - <blank>
No MDM errors.

'MDM Major State'

√STATE - Primary(Secondary)
MDM is operational.

'Configuration'

√Configuration - current configuration

NOTE

The possible NCS configurations are:
1 = Flight 2A configuration
2 = Flight 1R configuration
3 = Flight 3A configuration
4 = Flight 4A configuration
5 = Flight 5A configuration (pre CCS activation)
6 = Flight 5A configuration (post CCS activation)
7 = Flight 13A configuration

2. SEND COMMAND TO CHANGE CONFIGURATION

To change the configuration for the Primary NCS

PCS Node 1: C&DH: Primary MDM

NODE 1: C&DH: MDM: Primary

sel Configuration
cmd Prim_NCS_Sel_Config_[X] **Execute** [X] = New config
sel Close

NOTE

The MDM will perform a warm restart. The secondary MDM will then become the Primary MDM.

PCS Node 1: C&DH: Secondary MDM

NODE 1: C&DH: MDM: Secondary

√Frame Count - <incrementing>
MDM is operational.

√MDM BIT Status - <blank>
No MDM errors.

'MDM Major State'

√STATE - Primary(Secondary)
MDM is operational.

'Configuration'

√Configuration - current configuration

Perform MDM transition procedure to transition Secondary MDM to Primary if required.

Go to step 3.

To change the configuration for the Secondary NCS

PCS Node 1: C&DH: Secondary MDM
NODE 1: C&DH: MDM: Secondary

sel Configuration
cmd Second_NCS_Sel_Config_[X] **Execute** [X] = New config
sel Close

NOTE
The MDM will perform a warm restart. The secondary MDM will then become the Primary MDM.

PCS Node 1: C&DH: Secondary MDM
NODE 1: C&DH: MDM: Secondary

√Frame Count - <incrementing>
MDM is operational.
√MDM BIT Status - <blank>
No MDM errors.

'MDM Major State'

√STATE - Primary(Secondary)
MDM is operational.

'Configuration'

√Configuration - current configuration

3. VERIFY STATUS OF THE NEW CONFIGURATION

PCS Node 1: C&DH: Primary(Secondary) MDM

NODE 1: C&DH: MDM: Primary(Secondary)

If Configuration 2 was selected
- If Primary MDM
  - sel CB_GNC_ [X] bus — [X] = 1 for N1-1 or 2 for N1-2
  - sel RT Status
  - √RT Inhibited 22,23,24 - <blank>
  - sel UB_EPS_N1_14 bus
  - sel RT Status
  - √RT Inhibited 18,19,20 - <blank>
  - sel UB_EPS_N1_23 bus
  - sel RT Status
  - √RT Inhibited 18,19,20 - <blank>
  - sel UB_ORB_N1_[X] bus — [X] = 1 for N1-1 or 2 for N1-2
  - sel RT Status
  - √RT Inhibited 8,24 - <blank>
- If Secondary MDM
  - sel UB_ORB_N1_[X] bus — [X] = 1 for N1-1 or 2 for N1-2
  - sel RT Status
  - √RT Inhibited 8 - <blank>

If Configuration 3 was selected
- If Primary MDM
  - sel CB_GNC_ [X] bus — [X] = 1 for N1-1 or 2 for N1-2
  - sel RT Status
  - √RT Inhibited 22,23,24 - <blank>
  - If N1-2 MDM
    - sel LB_SYS_LAB_2 bus
    - sel RT Status
    - √RT Inhibited 18,19,20 - <blank>
  - sel UB_EPS_N1_14 bus
  - sel RT Status
  - √RT Inhibited 11,12,18,19,20 - <blank>
  - sel UB_EPS_N1_23 bus
  - sel RT Status
  - √RT Inhibited 11,12,18,19,20 - <blank>
  - sel UB_ORB_N1_[X] bus — [X] = 1 for N1-1 or 2 for N1-2
  - sel RT Status
  - √RT Inhibited 8,24 - <blank>

If Secondary MDM
If N1-2 MDM
sel LB_SYS_LAB_2 bus
sel RT Status
√RT Inhibited 18,19,20 - <blank>

sel UB_ORB_N1_[X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 8 - <blank>

If Configuration 4 was selected
If Primary MDM
sel CB_GNC_ [X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 22,23,24 - <blank>

If N1-1 MDM
sel LB_SYS_LAB_1 bus
sel RT Status
√RT Inhibited 18,19,20 - <blank>

If N1-2 MDM
sel LB_SYS_LAB_2 bus
sel RT Status
√RT Inhibited 15,16,17,18,19,20 - <blank>

sel UB_EPS_N1_14 bus
sel RT Status
√RT Inhibited 11,12,18,19,20,23,28 - <blank>

sel UB_EPS_N1_23 bus
sel RT Status
√RT Inhibited 11,12,18,19,20,23,28 - <blank>

sel UB_ORB_N1_[X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 8,24 - <blank>

If Secondary MDM
If N1-1 MDM
sel LB_SYS_LAB_1 bus
sel RT Status
√RT Inhibited 18,19,20 - <blank>

If N1-2 MDM
sel LB_SYS_LAB_2 bus
sel RT Status
√RT Inhibited 18,19,20 - <blank>

sel UB_ORB_N1_[X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 8 - <blank>

If Configuration 5 was selected
If Primary MDM
sel CB_GNC_ [X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 22,23,24,27,28,29,30 - <blank>

If N1-1 MDM
sel LB_SYS_LAB_1 bus
sel RT Status
√RT Inhibited 5,9,18,19,20,21, 29,30 - <blank>

If N1-2 MDM
sel LB_SYS_LAB_2 bus
sel RT Status
√RT Inhibited 5,9,18,19,20, 29,30 - <blank>

sel UB_EPS_N1_14 bus
sel RT Status
√RT Inhibited 11,12,18,19,20,23,28 - <blank>

sel UB_EPS_N1_23 bus
sel RT Status
√RT Inhibited 11,12,18,19,20,23,28 - <blank>

sel UB_ORB_N1_[X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 8,24 - <blank>

If Secondary MDM
sel CB_GNC_ [X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 27,28,29,30 - <blank>

If N1-1 MDM
sel LB_SYS_LAB_1 bus
sel RT Status
√RT Inhibited 5,9,18,19,20,21,29,30 - <blank>

If N1-2 MDM
sel LB_SYS_LAB_2 bus
sel RT Status
√RT Inhibited 5,9,18,19,20, 29,30 - <blank>

sel UB_ORB_N1_[X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 8 - <blank>

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If Configuration 6 was selected

If Primary MDM

sel CB_GNC_ [X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 28,29,30 - <blank>

sel LB_SYS_LAB_[X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 29,30 - <blank>

sel UB_EPS_N1_14 bus
sel RT Status
√RT Inhibited 11,12,18,19,20,23,28 - <blank>

sel UB_EPS_N1_23 bus
sel RT Status
√RT Inhibited 11,12,18,19,20,23,28 - <blank>

sel UB_ORB_N1_[X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 8 - <blank>

If Secondary MDM

sel CB_GNC_ [X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 28,29,30 - <blank>

sel LB_SYS_LAB_[X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 29,30 - <blank>

sel UB_ORB_N1_[X] bus [X] = 1 for N1-1 or 2 for N1-2
sel RT Status
√RT Inhibited 8 - <blank>

4. CHANGE DEFAULT CONFIGURATION

MCC-H - Perform EARLY PREPOSITIONED LOAD procedure using new Station Configuration PPL for both MDMs.